

## STUTI Standard Operating Procedures

1. Students should register themselves for placements with Department Coordinator of STUTI team in the beginning of the 6<sup>th</sup> Semester.
2. Department Coordinator of STUTI will collect data from students and create student list with aggregate and submit to the Placement Officer
3. Placement training program will be organised for all the students, it is mandatory to undergo training program if students want to appear in selection process,
4. Based on the company request students database after obtaining willingness from students will be shared with the company.
5. Campus recruitment dates will be confirmed based on the mutual convenient days.
6. Students will be informed about the company visit three days in advance.
7. Results will be announced to the students at the end of the recruitment process.
8. Once the students receive the offer letter by mail, they have been asked to submit the same to the Department Coordinator of STUTI.

Placements offered by our college sections into two categories as

General Placements

Dream Slots

### General Placements:

This involves companies with salary package upto 4.5 lakhs p.a.

Companies adhering to SHARING SLOT offer placements like Mpahsis and also other companies visiting for recruitment in the salary up to 4.5 Lakhs P.A.


The eligibility criteria would be 10th, 12th - 60 % each and CGPA of 6.0 and above with no standing arrears. Eligibility could vary as per company's requirements.

### Dream Slots:

Dream slot companies are like thought works, Wipro R& D, Samsung R&D, Hewlett Packard and IBM. The salary range is from 4.5 Lakhs to 8 Lakhs per annum.

The eligibility criteria would be 10th, 12th – 70 % each and CGPA of 7.0 and above with no standing arrears.

  
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Group Head HRD  
Sapthagiri College of Engineering  
Sapthagiri Institute of Medical  
Sciences & Research Centre

  
**Principal**  
Sapthagiri College of Engineering  
Chikkasandra, Hesaraghatta Road,  
Bangalore- 560 057



# Sapthagiri College of Engineering

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If Students selected in this category cannot appear for other companies unless the pay is above 8 Lakh P.A.

Normally students selected in this offer will get internship in the final semester.

Convener

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Principal

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Bangalore- 560 057



From,

Convenor  
STUTI (Career Guidance and Placement Cell)  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through

IQAC COORDINATOR  
Sapthagiri College of Engineering  
Bangalore - 560057.

To,

THE PRINCIPAL  
Sapthagiri College of Engineering  
Bangalore - 560057.

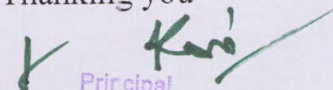
Respected Sir,

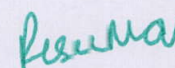
Subject: Requisition to conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 4<sup>th</sup> July 2016 to 6<sup>th</sup> Aug 2016.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 4<sup>th</sup> July 2016 to 6<sup>th</sup> Aug 2016. So, we request you to kindly approve for the above.

Sl.No.	Particular/Head	Amount in Rupees
1	Honorarium	8,75,000
2	Breakfast, Tea, Lunch, High Tea	20,000/-
3	Certificates	8000/-
4	Miscellaneous	2233/-
	<b>Total Amount Allocated in rupees</b>	<b>9,05,233/-</b>

Thanking you

  
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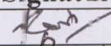
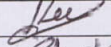
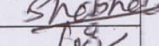

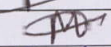
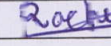
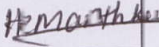
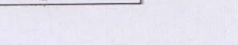
27/06/2016

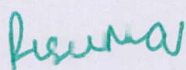
## STUTI CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 30/06/2015 at 1:30PM in Principal cubical.

### Agenda of the meeting:

1. To Discuss about resource person for training, and to finalize Conduction dates.
2. To Discuss and finalize about Course content.

Sl. No.	Name	Designation		Signature
1	Dr. Ravi. K. N	Professor	Member	
2	Prof .Prerana Chaithra	Associate Professor	Member	
3	Prof .Shobha Hugar	Asst. Professor	Member	
4	Prof. Shobha G	Asst. Professor	Member	
5	Prof .Madhushree	Asst. Professor	Member	
6	Prof .Madhu Kumar Y C	Asst. Professor	Member	
7	Rachel britto	Student	Member	
8	Hemantha kumar M	Student	Member	



Convener

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30/06/2016

## STUTI MINUTES OF MEETING

The meeting was held by STUTI (Career Guidance and Placement Cell) on 30/06/2016 at 1:30PM in Principal cubical.

### Agenda of the meeting:

To Conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 4/7/2016 to 6/8/2016.

1. Discussed about resource person, conduction date (4/7/2016 to 6/8/2016) and decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized. Course Schedule and Contents are as shown in the table
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct training smoothly.

DATES	SESSION 1	SESSION 2
04/07/16	Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> </ul>
05/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Numbers</li> </ul>
06/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Permutations</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• combinations</li> </ul>
07/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Average</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Simple interest</li> </ul>
08/07/16	Quantitative Aptitude Compound interest	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Clock</li> </ul>

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09/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Area percentage</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>HCF and LCM</li> </ul>
11/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Profit, Loss</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Discount</li> </ul>
13/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Time &amp; Distance</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Time &amp; Work</li> </ul>
14/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Partnership</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Ratio &amp; Proportion</li> </ul>
15/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Mixture &amp; Alligation</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Mensuration</li> </ul>
16/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Pipe &amp; Cisterns</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Boat &amp; Stream</li> </ul>
18/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>Work &amp; Wages</li> <li>Data Interpretation</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>Probability</li> <li>train</li> </ul>
19/07/16	Logical reasoning <ul style="list-style-type: none"> <li>Sitting Arrangement</li> </ul>	Logical reasoning <ul style="list-style-type: none"> <li>Ranking Arrangement</li> </ul>
20/07/16	Logical reasoning <ul style="list-style-type: none"> <li>Verbal Classifications</li> <li>Direction &amp; Distance</li> </ul>	Logical reasoning <ul style="list-style-type: none"> <li>Number Series</li> <li>Dice</li> </ul>
21/07/16	Logical reasoning <ul style="list-style-type: none"> <li>Statement and Conclusion</li> <li>Missing Numbers</li> </ul>	Logical reasoning <ul style="list-style-type: none"> <li>Statement and Assumption</li> <li>Counting of Figures</li> </ul>
22/07/16	Verbal Aptitude <ul style="list-style-type: none"> <li>Spotting errors</li> <li>Analogy</li> </ul>	Verbal Aptitude <ul style="list-style-type: none"> <li>Antonyms</li> <li>synonyms</li> </ul>
23/07/16	Verbal Aptitude <ul style="list-style-type: none"> <li>Comprehension</li> </ul>	Verbal Aptitude <ul style="list-style-type: none"> <li>Sentence formation</li> </ul>
25/07/16	Introduction to Communication Soft Skill <ul style="list-style-type: none"> <li>Verbal Communication</li> </ul>	Communication Skill <ul style="list-style-type: none"> <li>Non-Verbal Communication</li> </ul>
26/07/16	<ul style="list-style-type: none"> <li>Visual Communication</li> <li>Written Communication</li> </ul>	<ul style="list-style-type: none"> <li>Active Listening</li> <li>Clarity</li> </ul>
27/07/16	<ul style="list-style-type: none"> <li>Confidence</li> <li>Interviewing</li> </ul>	<ul style="list-style-type: none"> <li>Compound interest</li> <li>Clock</li> </ul>
28/07/16	<ul style="list-style-type: none"> <li>Negotiation</li> </ul>	<ul style="list-style-type: none"> <li>Personal Branding</li> </ul>
29/07/16	<ul style="list-style-type: none"> <li>Persuasion</li> </ul>	<ul style="list-style-type: none"> <li>Presentation Skills</li> </ul>

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30/07/16	• Public Speaking	• Story telling
01/08/16	• Diplomacy	• Empathy
02/08/16	• Friendliness	• Humor
03/08/16	• Networking	• Patience
04/08/16	• Positive Reinforcement	• Sensitivity & Tolerance
05/08/16	• Group discussion	• Group discussion
06/08/16	• Mock Interview	• Mock Interview

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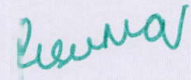
## NOTICE

It is hereby informed to all final year students, that the STUTI team of Sapthagiri College of engineering is organizing training on Quantitative/ logical reasoning/verbal aptitude and soft skill training from 4/7/2016 to 6/8/2016. So, all the students are requested to register their names to department coordinator of STUTI team.



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## NOTICE

This to inform all final year students that Schedule of Quantitative/ logical reasoning/verbal aptitude and soft skill training is as follows.

04/07/16	Introduction to the Quantitative Aptitude • Age	Quantitative Aptitude • Calendars
05/07/16	Quantitative Aptitude • Decimal fractions	Quantitative Aptitude • Numbers
06/07/16	Quantitative Aptitude • Permutations	Quantitative Aptitude • combinations
07/07/16	Quantitative Aptitude • Average	Quantitative Aptitude • Simple interest
08/07/16	Quantitative Aptitude • Compound interest	Quantitative Aptitude • Clock
09/07/16	Quantitative Aptitude • Area	Quantitative Aptitude • HCF and LCM
11/07/16	Quantitative Aptitude • Profit, Loss	Quantitative Aptitude • Discount
13/07/16	Quantitative Aptitude • Time & Distance	Quantitative Aptitude • Time & Work
14/07/16	Quantitative Aptitude • Partnership	Quantitative Aptitude • Ratio & Proportion
15/07/16	Quantitative Aptitude • Mixture & Alligation	Quantitative Aptitude • Mensuration
16/07/16	Quantitative Aptitude • Pipe & Cisterns	Quantitative Aptitude • Boat & Stream
18/07/16	Quantitative Aptitude • Work & Wages	Quantitative Aptitude • Probability
19/07/16	Logical reasoning • Sitting Arrangement	Logical reasoning • Ranking
20/07/16	Logical reasoning • Verbal Classifications	Logical reasoning • Number Series
21/07/16	Logical reasoning • Statement and Conclusion	Logical reasoning • Statement and
22/07/16	Verbal Aptitude • Spotting errors	Verbal Aptitude • Antonyms
23/07/16	Verbal Aptitude • Comprehension	Verbal Aptitude • Sentence formation

*K. K. K.*

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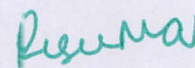
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25/07/16	Introduction to Communication Soft Skill <ul style="list-style-type: none"> <li>• Verbal Communication</li> </ul>	Communication Skill <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> </ul>
26/07/16	<ul style="list-style-type: none"> <li>• Visual Communication</li> <li>• Written Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Active Listening</li> <li>• Clarity</li> </ul>
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30/07/16	<ul style="list-style-type: none"> <li>• Public Speaking</li> </ul>	<ul style="list-style-type: none"> <li>• Story telling</li> </ul>
01/08/16	<ul style="list-style-type: none"> <li>• Diplomacy</li> </ul>	<ul style="list-style-type: none"> <li>• Empathy</li> </ul>
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05/08/16	<ul style="list-style-type: none"> <li>• Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Group discussion</li> </ul>
06/08/16	<ul style="list-style-type: none"> <li>• Mock Interview</li> </ul>	<ul style="list-style-type: none"> <li>• Mock Interview</li> </ul>



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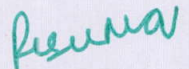


## NOTICE

STUTI team hereby informing to all final year students, to attend Scheduled test on Quantitative/ logical reasoning/verbal aptitude and soft skill training on 10/8/2016. So, all the students are requested to attend the training test without fail.



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## QUESTION PAPER

1. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

A. 7

B. 8

C. 9

D. 10

2. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is?

A. 14

B. 18

C. 20

D. 22

3. Six years ago, the ratio of the ages of Kunal and Sagar was 6: 5. Four years hence, the ratio of their ages will be 11: 10. What is Sagar's age at present?

A. 16

B. 18

C. 20

D. None of these

4. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is?

A. 50km

B. 56km

C. 70km

D. 80km

5. Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph,

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he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.?

- A. 8 kmph  
B. 11 kmph  
C. 12 kmph  
D. 14 kmph

6. The cost price of 20 articles is the same as the selling price of  $x$  articles. If the profit is 25%, then the value of  $x$  is?

- A. 15  
B. 16  
C. 18  
D. 25

7. A shopkeeper expects a gain of 22.5% on his cost price. If in a week, his sale was of Rs. 392, what was his profit?

- A. 18.20  
B. 70  
C. 72  
D. 88.25

8. A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is?

- A. 650  
B. 690  
C. 698  
D. 700

9. At what rate of compound interest per annum will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?

- A. 6%  
B. 6.5%  
C. 7%  
D. 7.5%

10. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the

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work if he is assisted by B and C on every third day?

- A. 12 days  
B. 15 days  
C. 16 days  
D. 18 days

11. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are?

- A. 39, 30  
B. 41, 32  
C. 42, 33  
D. 43, 34

12. A and B invest in a business in the ratio 3: 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is?

- A. Rs. 1425  
B. Rs. 1500  
C. Rs. 1537.50  
D. Rs. 1576


13. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

- A. Sunday  
B. Saturday  
C. Friday  
D. Wednesday

14. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is?

- A.  $0^\circ$   
B.  $10^\circ$   
C.  $5^\circ$   
D.  $20^\circ$

15. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the

  
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remaining 40 overs to reach the target of 282 runs?

A. 6.25

B. 6.5

C. 6.75

D. 7

16. The ratio between the perimeter and the breadth of a rectangle is 5: 1. If the area of the rectangle is 216 sq. cm, what is the length of the rectangle?

A. 16 cm

B. 18 cm

C. 24 cm

D. None of these

17. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

A. 360

B. 480

C. 720

D. 5040

18. What least number must be added to 1056, so that the sum is completely divisible by 23?

A. 2

B. 3

C. 18

D. 21

19. The sum of first five prime numbers is?

A. 11

B. 18

C. 26

D. 28

20. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is?

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*Suma*

**Group Head HRD**

**SUMA VISHWANATH**

Group Head HRD  
Sapthagiri College of Engineering  
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*L. K.*

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- A. 20                      B. 23  
C. 169                     D. None of these

21. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1: 1: 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be?

- A. Rs. 169.50                      B. Rs. 170  
C. Rs. 175.50                     D. Rs. 180

22. The compound interest on a certain sum for 2 years at 10% per annum is Rs. 525. The simple interest on the same sum for double the time at half the rate percent per annum is?

- A. Rs. 400                      B. Rs. 500  
C. Rs. 600                      D. Rs. 800

23. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?

- A. Rs. 1090                      B. Rs. 1160  
C. Rs. 1190                      D. Rs. 1202

24. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- A. 4                      B. 10  
C. 15                     D. 16

25. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

- A.  $\frac{1}{2}$                       B.  $\frac{2}{5}$   
C.  $\frac{8}{15}$                      D.  $\frac{9}{20}$

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## SCHEME

1. Answer: Option D

Explanation:

Let C's age be  $x$  years. Then, B's age =  $2x$  years. A's age =  $(2x + 2)$  years.

$$\therefore (2x + 2) + 2x + x = 27$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = 5.$$

Hence, B's age =  $2x = 10$  years

2. Answer: Option D

Explanation:

Let the son's present age be  $x$  years. Then, man's present age =  $(x + 24)$  years.

$$\therefore (x + 24) + 2 = 2(x + 2)$$

$$\Rightarrow x + 26 = 2x + 4$$

$$\Rightarrow x = 22.$$

3. Answer: Option A

Explanation:

Let the ages of Kunal and Sagar 6 years ago be  $6x$  and  $5x$  years respectively.

$$\text{Then, } \frac{(6x + 6) + 4}{(5x + 6) + 4} = \frac{11}{10}$$

$$\Rightarrow 10(6x + 10) = 11(5x + 10)$$

$$\Rightarrow 5x = 10$$

$$\Rightarrow x = 2.$$

$$\therefore \text{Sagar's present age} = (5x + 6) = 16 \text{ years.}$$

4. Answer: Option A

Explanation:

Let the actual distance travelled be  $x$  km.

$$\text{Then, } \frac{x}{10} = \frac{x + 20}{14}$$

$$\Rightarrow 14x = 10x + 200$$

$$\Rightarrow 4x = 200$$

$$\Rightarrow x = 50 \text{ km.}$$

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5. Answer: Option C

Let the distance travelled by  $x$  km.

$$\text{Then, } \frac{x}{10} - \frac{x}{15} = 2$$

$$\Rightarrow 3x - 2x = 60$$

$$\Rightarrow x = 60 \text{ km.}$$

Time taken to travel 60 km at 10 km/hr =  $\left(\frac{60}{10}\right)$  hrs = 6 hrs.

So, Robert started 6 hours before 2 P.M. i.e., at 8 A.M.

$$\therefore \text{Required speed} = \left(\frac{60}{5}\right) \text{ kmph} = 12 \text{ kmph.}$$

6. Answer: Option B

Explanation:

Let C.P. of each article be Rs. 1. C.P. of  $x$  articles = Rs.  $x$ .

S.P. of  $x$  articles = Rs. 20

Profit = Rs.  $(20 - x)$ .

$$\therefore \left(\frac{20 - x}{x} \times 100 = 25\right)$$

$$\Rightarrow 2000 - 100x = 25x$$

$$125x = 2000$$

$$\Rightarrow x = 16.$$

7. Answer: Option C

Explanation:

$$\text{C.P.} = \text{Rs. } \left(\frac{100}{122.5} \times 392\right) = \text{Rs. } \left(\frac{1000}{1225} \times 392\right) = \text{Rs. } 320$$

$$\therefore \text{Profit} = \text{Rs. } (392 - 320) = \text{Rs. } 72.$$

8. Answer: Option C

Explanation:

$$\text{S.I. for 1 year} = \text{Rs. } (854 - 815) = \text{Rs. } 39.$$

$$\text{S.I. for 3 years} = \text{Rs. } (39 \times 3) = \text{Rs. } 117.$$

$$\therefore \text{Principal} = \text{Rs. } (815 - 117) = \text{Rs. } 698.$$



9. Answer: Option A

Explanation:

Let the rate be R% p.a.

$$\text{Then, } 1200 \times \left(1 + \frac{R}{100}\right)^2 = 1348.32$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^2 = \frac{134832}{120000} = \frac{11236}{10000}$$

$$\therefore \left(1 + \frac{R}{100}\right)^2 = \left(\frac{106}{100}\right)^2$$

$$\Rightarrow 1 + \frac{R}{100} = \frac{106}{100}$$

$$\Rightarrow R = 6\%$$

10. Answer: Option B

Explanation:

$$\text{A's 2 day's work} = \left(\frac{1}{20} \times 2\right) = \frac{1}{10}$$

$$\text{(A + B + C)'s 1 day's work} = \left(\frac{1}{20} + \frac{1}{30} + \frac{1}{60}\right) = \frac{6}{60} = \frac{1}{10}$$

$$\text{Work done in 3 days} = \left(\frac{1}{10} + \frac{1}{10}\right) = \frac{1}{5}$$

Now,  $\frac{1}{5}$  work is done in 3 days.

$\therefore$  Whole work will be done in  $(3 \times 5) = 15$  days.

11. Answer: Option C

Explanation:

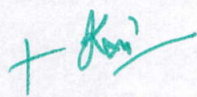
Let their marks be  $(x + 9)$  and  $x$ .

$$\text{Then, } x + 9 = \frac{56}{100}(x + 9 + x)$$

$$\Rightarrow 25(x + 9) = 14(2x + 9)$$

$$\Rightarrow 3x = 99$$

$$\Rightarrow x = 33$$



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So, their marks are 42 and 33.

12. Answer: Option B

Explanation:

Let the total profit be Rs. 100.

After paying to charity, A's share = Rs.  $\left(95 \times \frac{3}{5}\right)$  = Rs. 57.

If A's share is Rs. 57, total profit = Rs. 100.

If A's share Rs. 855, total profit =  $\left(\frac{100}{57} \times 855\right)$  = 1500.

13. Answer: Option C

Explanation:

On 31<sup>st</sup> December, 2005 it was Saturday.

Number of odd days from the year 2006 to the year 2009 = (1 + 1 + 2 + 1) = 5 day.

∴ On 31<sup>st</sup> December 2009, it was Thursday.

Thus, on 1<sup>st</sup> Jan, 2010 it is Friday.

14. Answer: Option E

Explanation:

Angle traced by hour hand in  $\frac{13}{3}$  hrs =  $\left(\frac{360}{12} \times \frac{13}{3}\right)^\circ$  = 130°.

Angle traced by min. hand in 20 min. =  $\left(\frac{360}{60} \times 20\right)^\circ$  = 120°.

∴ Required angle = (130 - 120)° = 10°.

15. Answer: Option A

Explanation:

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$$\text{Required run rate} = \left( \frac{282 - (3.2 \times 10)}{40} \right) = \frac{250}{40} = 6.25$$

16. Answer: Option B

Explanation:

$$\frac{2(l+b)}{b} = \frac{5}{1}$$

$$\Rightarrow 2l + 2b = 5b$$

$$\Rightarrow 3b = 2l$$

$$b = \frac{2}{3}l$$

$$\text{Then, Area} = 216 \text{ cm}^2$$

$$\Rightarrow l \times b = 216$$

$$\Rightarrow l \times \frac{2}{3}l = 216$$

$$\Rightarrow l^2 = 324$$

$$\Rightarrow l = 18 \text{ cm.}$$

17. Answer: Option C

Explanation

The word 'LEADING' has 7 different letters.

When the vowels EAI are always together, they can be supposed to form one letter.

Then, we have to arrange the letters LNDG (EAI).

Now,  $5 (4 + 1 = 5)$  letters can be arranged in  $5! = 120$  ways.

The vowels (EAI) can be arranged among themselves in  $3! = 6$  ways.

$$\therefore \text{Required number of ways} = (120 \times 6) = 720.$$

18. Answer: Option A

Explanation:

23) 1056 (45

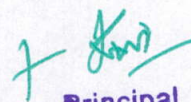
92

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136

115

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21

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Required number =  $(23 - 21)$   
= 2.

19. Answer: Option D

Explanation:

Required sum =  $(2 + 3 + 5 + 7 + 11) = 28$ .

Note: 1 is not a prime number

20. Answer: Option B

Explanation:

Let the numbers be  $x$  and  $y$ .

Then,  $xy = 120$  and  $x^2 + y^2 = 239$ .

$\therefore (x + y)^2 = x^2 + y^2 + 2xy = 239 + (2 \times 120) = 529$

$\therefore x + y = 529 = 23$ .

21. Answer: Option C

Since first and second varieties are mixed in equal proportions.

So, their average price = Rs.  $\left( \frac{126 + 135}{2} \right) = \text{Rs. } 130.50$

So, the mixture is formed by mixing two varieties, one at Rs. 130.50 per kg and the other at say, Rs.  $x$  per kg in the ratio 2: 2, i.e., 1: 1. We have to find  $x$ .

By the rule of alligation, we have:

Cost of 1 kg of 1<sup>st</sup> kind      Cost of 1 kg tea of 2<sup>nd</sup> kind

Rs. 130.50

Mean Price

Rs.  $x$

$(x - 153)$

Rs. 153

22.50

$\therefore \frac{x - 153}{22.50} = 1$

$\Rightarrow x - 153 = 22.50$

$\Rightarrow x = 175.50$

22. Answer: Option B

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Explanation:

Let the sum be Rs. F.

$$\text{Then, } \left[ P \left( 1 + \frac{10}{100} \right)^2 - P \right] = 525$$

$$\Rightarrow P \left[ \left( \frac{11}{10} \right)^2 - 1 \right] = 525$$

$$\Rightarrow P = \left( \frac{525 \times 100}{21} \right) = 2500.$$

∴ Sum = Rs. 2500.

$$\text{So, S.I.} = \text{Rs. } \left( \frac{2500 \times 5 \times 4}{100} \right) = \text{Rs. } 500$$

23. Answer: Option C

Explanation:

$$\text{S.P.} = 85\% \text{ of Rs. } 1400 = \text{Rs. } \left( \frac{85}{100} \times 1400 \right) = \text{Rs. } 1190$$

24. Answer: Option D

Explanation:

L.C.M. of 2, 4, 6, 8, 10, 12 is 120.

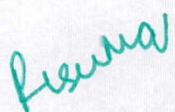
So, the bells will toll together after every 120 seconds (2 minutes).

In 30 minutes, they will toll together  $\frac{30}{2} + 1 = 16$  times.

25. Answer: Option D

Explanation:

  
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Here,  $S = \{1, 2, 3, 4, \dots, 19, 20\}$ .

Let  $E =$  event of getting a multiple of 3 or 5 =  $\{3, 6, 9, 12, 15, 18, 5, 10, 20\}$ .

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{9}{20}$$

  
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STUTI  
CAREER GUIDANCE AND PLACEMENT CELL

*CERTIFICATE OF PERFORMANCE*

*THIS IS TO CERTIFY THAT*

*Mr/Ms \_\_\_\_\_ has participated in  
“Quantitative/ logical reasoning/verbal aptitude and soft skill training” form  
4/7/2016 to 6/8/2016 organized by STUTI Team.*

CONVENOR

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## REPORT ON QUANTITATIVE/ LOGICAL REASONING/VERBAL APTITUDE AND SOFT SKILL TRAINING

The STUTI Team had organized the training on Quantitative/logical reasoning/verbal aptitude and soft skill training from 4/7/2016 to 6/8/2016 and all the final year students attended the training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

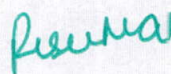
1. Communication skill
2. HR Skills
3. Group Discussion
4. Mock interview



Discussion regarding Quantitative Aptitude, Logical reasoning, Verbal Aptitude and HR Skills



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Mock Interview done by the trainer for individual student.



Group Discussion regarding trending technologies.

*Suma*

CONVENOR

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*J. Kon'*

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From,

Convenor  
STUTI (Career Guidance and Placement Cell)  
Sapthagiri College of Engineering  
Bangalore - 560057.

Through

IQAC COORDINATOR  
Sapthagiri College of Engineering  
Bangalore - 560057.

To,

THE PRINCIPAL  
Sapthagiri College of Engineering  
Bangalore - 560057.

Respected Sir,

Subject: Requisition to conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for pre final years from 28/7/2016 to 4/8/2016.

In the benefit of student welfare STUTI is Conducting training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for pre final years from 28/7/2016 to 4/8/2016. So, we request you to kindly approve for the above.

Sl.No.	Particular/Head	Amount in Rupees
1	Honorarium	83,000
2	Breakfast, Tea, Lunch, High Tea	8,000/-
3	Certificates	8,000/-
4	Miscellaneous	1,575/-
	<b>Total Amount Allocated in rupees</b>	<b>1,00,575/-</b>

Thanking you

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Convenor

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







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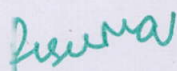
## STUTI CIRCULAR

This is to inform that all STUTI team members to attend the meeting held on 25/07/2016 at 2:00PM in Principal cubical.

### Agenda of the meeting:

1. To Discuss about resource person for training, and to finalize Conduction dates.
2. To Discuss and finalize about Course content.

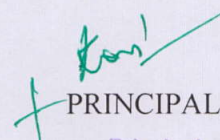
Sl. No.	Name	Designation		Signature
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2	Prof. Prerana Chaithra	Associate Professor	Member	
3	Prof. Shobha Hugar	Asst. Professor	Member	
4	Prof. Shobha G	Asst. Professor	Member	
5	Prof. Madhushree	Asst. Professor	Member	
6	Prof. Madhu Kumar Y C	Asst. Professor	Member	
7	Rachel britto	Student	Member	
8	Hemantha kumar M	Student	Member	



Convener

**SUMA VISHWANATH**

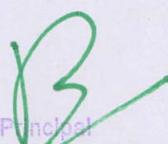
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25/07/2016

## STUTI MINUTES OF MEETING

The meeting was held by STUTI (Career Guidance and Placement Cell) on 25/07/2016 at 2:00PM in Principal cubical.

### Agenda of the meeting:

To Conduct training on Quantitative/ logical reasoning/verbal aptitude and soft skill training for final years from 28/7/2016 to 4/8/2016.

1. Discussed about resource person, conduction date (28/7/2016 to 4/8/2016) and decided Resource person from ladder consultancy service pvt ltd.
2. Discussed about Course content and finalized. Course Schedule and Contents are as shown in the table
3. Informed STUTI team to coordinate with ladder consultancy service pvt ltd to conduct training smoothly.

DATES	SESSION 1	SESSION 2
28/07/16	Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age &amp; Average</li> <li>• Time &amp; Distance &amp; Work</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> <li>• Clock</li> </ul>
29/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions &amp; Numbers</li> <li>• Partnership &amp; Profit, Loss</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Ratio &amp; Proportion</li> <li>• Percentage &amp; Area</li> </ul>
30/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Compound interest &amp; Simple interest</li> <li>• Work &amp; Wages</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Combinations &amp; Discount</li> <li>• Train</li> </ul>
01/08/16	Logical reasoning <ul style="list-style-type: none"> <li>• Missing Numbers</li> <li>• Counting of Figures</li> </ul>	Logical reasoning <ul style="list-style-type: none"> <li>• Sitting Arrangement</li> <li>• Ranking Arrangement</li> </ul>

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02/08/16	<b>Introduction to Communication Soft Skill</b> <ul style="list-style-type: none"> <li>• Verbal Communication</li> <li>• Visual Communication</li> <li>• Written Communication</li> </ul>	<b>Communication Skill</b> <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> <li>• Active Listening</li> <li>• Clarity</li> </ul>
03/08/16	<ul style="list-style-type: none"> <li>• Confidence</li> <li>• Interviewing</li> <li>• Negotiation</li> </ul>	<ul style="list-style-type: none"> <li>• Personal Branding</li> <li>• Presentation Skills</li> <li>• Story telling</li> </ul>
04/08/16	<ul style="list-style-type: none"> <li>• Persuasion</li> <li>• Public Speaking</li> <li>• Friendliness</li> </ul>	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Mock Interview</li> </ul>

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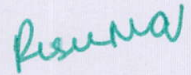
## NOTICE

It is hereby informed to all pre final year students, that the STUTI team of Sapthagiri College of engineering is organizing training on Quantitative/ logical reasoning/verbal aptitude and soft skill training from 28/7/2016 to 4/8/2016. So, all the students are requested to register their names to department coordinator of STUTI team.



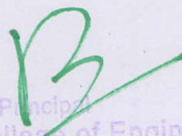
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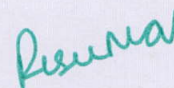
## NOTICE

This to inform all pre final year students that Schedule of Quantitative/ logical reasoning/verbal aptitude and soft skill training is as follows.

28/07/16	Introduction to the Quantitative Aptitude <ul style="list-style-type: none"> <li>• Age &amp; Average</li> <li>• Time &amp; Distance &amp; Work</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Calendars</li> <li>• Clock</li> </ul>
29/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Decimal fractions &amp; Numbers</li> <li>• Partnership &amp; Profit, Loss</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Ratio &amp; Proportion</li> <li>• Percentage &amp; Area</li> </ul>
30/07/16	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Compound interest &amp; Simple interest</li> <li>• Work &amp; Wages</li> </ul>	Quantitative Aptitude <ul style="list-style-type: none"> <li>• Combinations &amp; Discount</li> <li>• train</li> </ul>
01/08/16	Logical reasoning <ul style="list-style-type: none"> <li>• Missing Numbers</li> <li>• Counting of Figures</li> </ul>	Logical reasoning <ul style="list-style-type: none"> <li>• Sitting Arrangement</li> <li>• Ranking Arrangement</li> </ul>
02/08/16	Introduction to Communication Soft Skill <ul style="list-style-type: none"> <li>• Verbal Communication</li> <li>• Visual Communication</li> <li>• Written Communication</li> </ul>	Communication Skill <ul style="list-style-type: none"> <li>• Non-Verbal Communication</li> <li>• Active Listening</li> <li>• Clarity</li> </ul>
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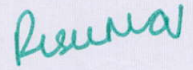


## NOTICE

STUTI team hereby informing to all pre final year students, to attend Scheduled test on Quantitative/ logical reasoning/verbal aptitude and soft skill training on 11/3/2016. So, all the students are requested to attend the training test without fail.

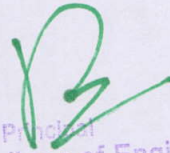


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**QUESTION PAPER**

1. The FIFO algorithm

- A. executes first the job that last entered the queue
- B. executes first the job that first entered the queue
- C. execute first the job that has been in the queue the longest
- D. executes first the job with the least processor needs
- E. None of the above

2. What is the name given to the organized collection of software that controls the overall operation of a computer?

- A. Working system
- B. Peripheral system
- C. Operating system
- D. Controlling system
- E. None of the above

3. The principle of locality of reference justifies the use of

- A. reenterable
- B. non reusable
- C. virtual memory
- D. cache memory
- E. None of the above

4. The register or main memory location which contains the effective address of the operand is known as

- A. pointer

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- B. indexed register
- C. special location
- D. scratch pad
- E. None of the above

5. Assembly code data base is associated with

- A. assembly language version of the program which is created by the code generation phase and is input to the assembly phase.
- B. a permanent table of decision rules in the form of patterns for matching with the uniform symbol table to discover syntactic structure.
- C. consists of a full or partial list of the token's as they appear in the program. Created by Lexical analysis and used for syntax analysis and interpretation.
- D. a permanent table which lists all key words and special symbols of the language in symbolic form.
- E. None of the above

6. Thrashing can be avoided if

- A. the pages, belonging to the working set of the programs, are in main memory
- B. the speed of CPU is increased
- C. the speed of I/O processor is increased
- D. all of the above
- E. None of the above

7. In analyzing the compilation of PL/I program, the term "Lexical analysis" is associated with

- A. recognition of basic syntactic constructs through reductions.
- B. recognition of basic elements and creation of uniform symbols
- C. creation of more optional matrix.

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- D. use of macro processor to produce more optimal assembly code
- E. None of the above

8. Resolution of externally defined symbols is performed by

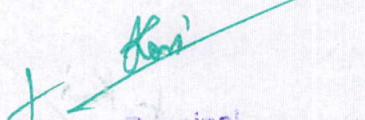
- A. Linker
- B. Loader
- C. Compiler
- D. Assembler
- E. None of the above

9. System generation:

- A. is always quite simple
- B. is always very difficult
- C. varies in difficulty between systems
- D. requires extensive tools to be understandable
- E. None of the above

10. The Memory Address Register

- A. is a hardware memory device which denotes the location of the current instruction being executed.
- B. is a group of electrical circuits (hardware), that performs the intent of instructions fetched from memory.
- C. contains the address of the memory location that is to be read from or stored into.
- D. contains a copy of the designated memory location specified by the MAR after a "read" or the new contents of the memory prior to a "write".
- E. None of the above

  
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11. In virtual memory systems, Dynamic address translation

- A. is the hardware necessary to implement paging
- B. stores pages at a specific location on disk
- C. is useless when swapping is used
- D. is part of the operating system paging algorithm
- E. None of the above

12. Fragmentation of the file system

- A. occurs only if the file system is used improperly
- B. can always be prevented
- C. can be temporarily removed by compaction
- D. is a characteristic of all file systems
- E. None of the above

13. A non-relocatable program is one which

- A. cannot be made to execute in any area of storage other than the one designated for it at the time of its coding or translation.
- B. consists of a program and relevant information for its relocation.
- C. can itself perform the relocation of its address-sensitive portions.
- D. all of the above
- E. None of the above

14. Which of the following are (is) Language Processor(s)

- A. assembles
- B. compilers
- C. interpreters

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- D. All of the above
- E. None of the above

15. In which addressing mode the effective address of the operand is the contents of a register specified in the instruction and after accessing the operand, the contents of this register is incremented to point to the next item in the list?

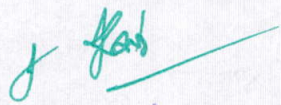
- A. index addressing
- B. indirect addressing
- C. auto increment
- D. auto decrement
- E. None of the above

16. The memory allocation scheme subject to "external" fragmentation is

- A. segmentation
- B. swapping
- C. pure demand paging
- D. multiple contiguous fixed partitions
- E. None of the above

17. While working with MS-DOS, which command will you use to transfer a specific file from one disk to another?

- A. DISKCOPY
- B. COPY
- C. RENAME
- D. FORMAT
- E. None of the above

  
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18. What is the name of the operating system for the laptop computer called MacLite?

- A. Windows
- B. DOS
- C. MS-DOS
- D. OZ
- E. None of the above

19. In which addressing mode the contents of a register specified in the instruction are first decremented, and then these contents are used as the effective address of the operands?

- A. index addressing
- B. indirect addressing
- C. auto increment
- D. auto decrement
- E. None of the above

20. What is the name given to the values that are automatically provided by software to reduce keystrokes and improve a computer user's productivity?

- A. Defined values
- B. Fixed values
- C. Default values
- D. Special values
- E. None of the above

21. Page stealing

- A. is a sign of an efficient system
- B. is taking page frames from other working sets
- C. should be the tuning goal
- D. is taking larger disk spaces for pages paged out





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E. None of the above

22. In MS-DOS 5.0, which is the number that acts as a code to uniquely identify the software product?

A. MS

B. DOS

C. MS DOS

D. 5.0

E. None of the above

23. Bug means

A. A logical error in a program

B. A difficult syntax error in a program

C. Documenting programs using an efficient documentation tool

D. All of the above

E. None of the above

24. Memory management is :

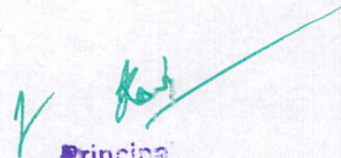
A. not used in modern operating system

B. replaced with virtual memory on current systems

C. not used on multiprogramming systems

D. critical for even the simplest operating systems

E. None of the above

  
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25. The initial value of the semaphore that allows only one of the many processes to enter their critical sections, is

- A. 8
- B. 1
- C. 16
- D. 0
- E. None of the above

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## **SCHEME**

**1. Answer: Option B**

**2. Answer: Option C**

Operating system (OS) is a collection of software that manages computer hardware resources and provides common services for computer programs.

**3. Answer: Option D**

**4. Answer: Option A**

**5. Answer: Option A**

**6. Answer: Option A**

For executing any program, CPU needs some data, it will first check main memory for that required data, if it is present in main memory then CPU will use it, otherwise CPU retrieves the data (also called as page) from Secondary memory into primary memory and then executes the program.

When this page swapping (some pages transferred from 2nd memory to 1st and vice versa) occurs to such an extent that CPU only does this swapping work and leaves all the necessary execution, then this state is called THRASHING.

So pages which are needed for execution, if already present in main memory (that is, no need to swap from secondary memory) then thrashing can be avoided [that's why answer is A].

One best solution is -> Increase the size of main memory.

**7. Answer: Option B**

**8. Answer: Option A**

**9. Answer: Option C**

In computing, System generation or sysgen is the process of creating a particular unique instance of an operating system by combining user-specific options and parameters with manufacturer-supplied general-purpose program code to produce an operating system tailored for a particular hardware and software environment.

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10. Answer: Option C

11. Answer: Option A

12. Answer: Option C

13. Answer: Option A

A non-relocatable program is one which cannot be made to execute in any area of storage other than the one designated for it at the time of its coding or translation.

A relocatable program form is one which consists of a program and relevant information for its relocation. Using this information it is possible to relocate the program to execute from a storage area than the one designated for it at the time of its coding or translation.

14. Answer: Option D

15. Answer: Option C

16. Answer: Option A

17. Answer: Option B

18. Answer: Option D

19. Answer: Option D

20. Answer: Option C

21. Answer: Option B

Some Operating Systems periodically look for pages that have not been recently referenced and add them to the Free page queue, after paging them out if they have been modified.

22. Answer: Option D

23. Answer: Option A

24. Answer: Option D

25. Answer: Option B

A semaphore is a variable. Therefore, there are 2 types of semaphores:

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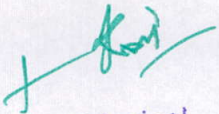
Binary semaphores

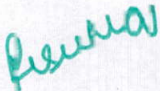
Counting semaphores

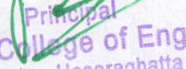
Binary semaphores have 2 methods associated with it. (up, down / lock, unlock)

Binary semaphores can take only 2 values (0/1). They are used to acquire locks. When a resource is available, the process in charge set the semaphore to 1 else 0.

Counting Semaphore may have value to be greater than one, typically used to allocate resources from a pool of identical resources.

  
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# Placement



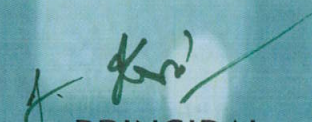
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CAREER GUIDANCE AND PLACEMENT CELL

## CERTIFICATE OF PERFORMANCE

### THIS IS TO CERTIFY THAT

Mr/Ms \_\_\_\_\_ has participated in  
“Quantitative/ logical reasoning/verbal aptitude and soft skill training” form  
28/7/2016 to 4/8/2016 organized by STUTI Team.

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PRINCIPAL

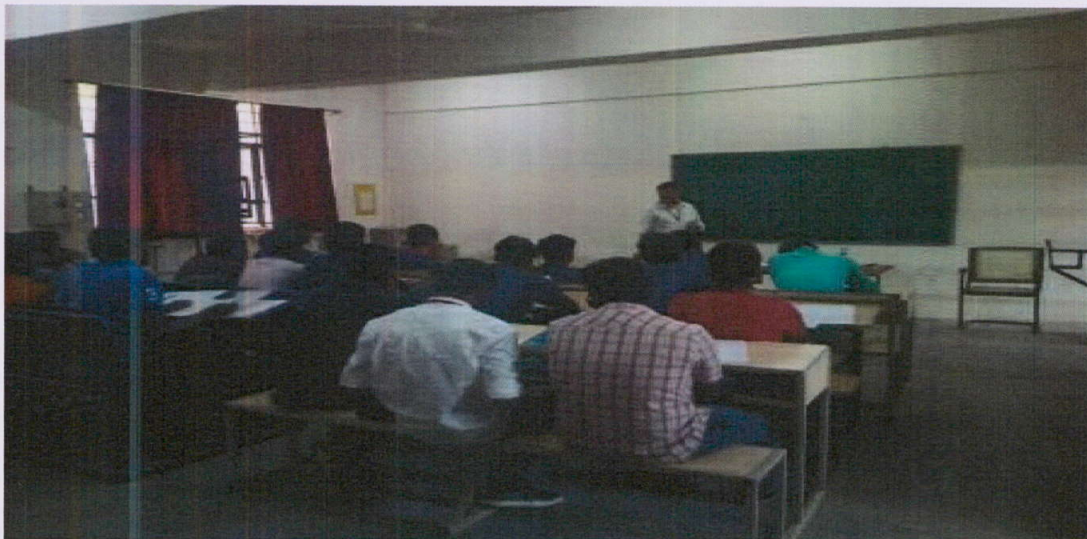


## REPORT ON QUANTITATIVE/ LOGICAL REASONING/VERBAL APTITUDE AND SOFT SKILL TRAINING

The STUTI Team had organized the training on Quantitative/logical reasoning/verbal aptitude and soft skill training from 28/7/2016 to 4/8/2016 and all the pre final year students attended the training program. The program was successfully organized and carried out by STUTI Team.

The training program covered the following domains

1. Communication skill
2. HR Skills
3. Group Discussion
4. Mock interview

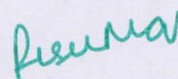


Discussion regarding Quantitative Aptitude, Logical reasoning, Verbal Aptitude and HR Skills



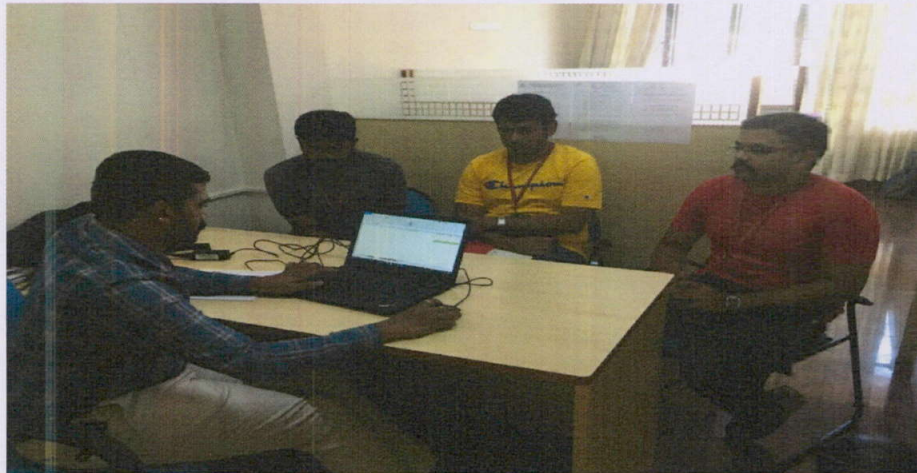
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Group Discussion regarding trending technologies.



Mock Interview done by the trainer for individual student.

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**SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST****BANK PAYMENT/DEBIT VOUCHER**

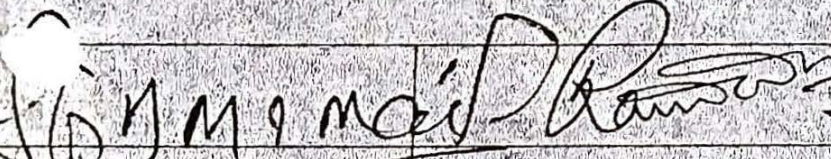
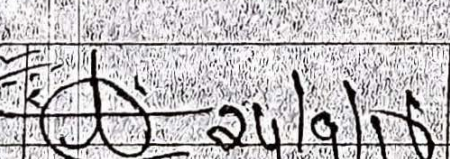
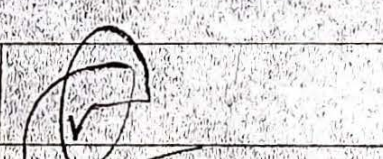
(Sapthagiri College of Engineering), # 619/G, 36th Cross, 2nd Block,,  
Rajajinagar, Bangalore - 560 010.

Date: **1-Sep-2016**

Account Head		DEBIT Rs.	CREDIT Rs.
By: M/s.Ladder Consultancy Services Pvt Ltd		11,94,750.00	
To: TGMC-103091002852			11,94,750.00
Total		11,94,750.00	11,94,750.00

**Rupees Eleven Lakh Ninety Four Thousand Seven Hundred Fifty Only.**

being amount paid towards placement training agaist Bill.No LCS/TS/577/08/16 (Placement for 7 sem students

Ch No: 810587	Receiver's Signature	Prepared By	Verified By	Authorised Signatory
Date: 24-Sep-2016		 24/9/16	 24/9/16	